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(54) CALCIUM PHOSPHATE BASED FIBER

(57)Abstract:

PURPOSE: The titled fibers having Ca/P molar ratio and total content of CaO and P₂O₅ within specific ranges, useful for a filling material in defective bone parts of the living body, capable of producing rapid remedial effect and having improved physical properties and affinity for the living body.

CONSTITUTION: Calcium phosphate based fibers having 0.6W1.7 molar ratio (Ca/P) and ≥80wt% total content of CaO and P₂O₅. For example, the fibers are obtained by mixing quick lime with ammonium triphosphate, alumina, etc., to give the molar ratio (Ca/P) and the total content of CaO and P₂O₅ within the above-mentioned ranges, melting the resultant mixture and fiberizing the molten mixture. The use of the above-mentioned fibers with a calcium phosphate compound together improves the remedial effect and granular or particulate hydroxyapatite heat-treated at 500W1,350° C is particularly preferred for the above-mentioned calcium phosphate compound.

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